iz b Just and G.d. Dan iΞ i=1 "Li -=b

Figure

eg18 nucleotide sequence (coding and non-coding) reesei

GGAAGAAACCGCCTCTCCCACTCCCAATGCTGTTACCAAGCCCTCGCCCGACAGGACGCGACTCTTCCGACGACGACAAGGA CACCACAGACAACGTCGACGCCTTCAACGACTTCGCGGACTGGCTGAGGCAGAACAAGCGCCAGGCCATCATCTCCGAAAC TGGCTTTGTGGGGCTGGGGGGGCGCGCTTTGACACGTCGTACATCTTGACTCTGACTCCCCTCGGCAAGCCCGGCAACTA CACCGACAACAAGCTCATGAACGAGTGCATTCTGGACCAGTTTACCCTCGACGAAAAGTACCGTCCAACACCCCCCTCAAT TTCCACAGGGGGGAAGAGAGGGCCACGGCGACAGCAGCACCTCTGACGGCGACGCCCATCCACTACGAAGCCCATCTTAG CTCGGCAGCATCTATGAGTGCCCAGGGCTTGACAGGCACGGTGCTGTTTACTGTTGCTGCCCTTGGCTACATGCTGGTAGC GTTTTGATGTTTTTTTTAATGAGTTTGTATACCTAATGAGCATGATTGAGATGCTACGTAGTATATATGTCTTTACGGG CCTCCTGCCCGGAACCAACTTTGCCAGCGTCGAGACGTATGTGTCCACTGGCAGCGCGGAAGCCCTCGGCAAGATTACGAA CCCGGATGGAAGCACCGATTTGCTGTACTTTGATGTCCACAAGTATCTCGACATCAACAACTCCGGGTCGCACGCCCGAGTG GGGCGCGTCCATGGAACCTTCGTGCATGACTGCCTTCTGCGCCCAGAACAAGGCCATTAGCGAAAAAAACGACGACGTCTACAT GTTCGACTAGGTAGTGGTAATATACGGACAGCTTTTTTTCCCTCGCTCAACACGTCGACGTACAATTAATACACCATCCG TTAATCGGATATATCCCTCGGCCTCTTCCTGGTGCTTGTGCGACGCTCCTCGTTTCTCCCTCTCATTATGCGCGCAACCTC CCTTCTGGCCGCCGCCTTGGCCGTGGCTGGCGATGCCCTCGCCGGCAGATCAAATATCTGGGCGTCGCCATTCCCGGAAT CGACTTTGGCTGCGACATCGACGGCAGCTGTCCGACTGACACGTCGTCTGTGCCCCTGCTGAGCTACAAGGAGGAGGATGG CGCCGGCCAGATGAAGCATTTCGCCGAAGACGACGGCCTCAACGTCTTTCGCATATCCGCTACATGGCAGTTTGTCCTCAA TGTCGACCTCTGGGTCCAGATCGCAAAGTACTACGAGGACAACGACAAGATCATCTTTGGCCTGATGAACGAGCCGCACGA CCTCGACATTGAGATCTGGGCGCAGACGTGCCAAAAGGTCGTCACTGCGATCCGAAAGGCCGGCGCCACCTCGCAGATGAT GCTCGTTGGCATTCTGCTTAGCACTTTGTTTCGTTCTTCGTTCTTTTAATCCGTCATCTTCTGCAATCTGCTGCTGCTTTT CAACACGGTGGACGGCAAGCTGGACGAGCTCAACTGGGGCTCCTACAACAAGGTCGTCAACGCCTGTCTCGAGACGGGCGC CTACTGCATGATTGACATGCACAACTTTGCCCGCTACAACGGCGGCATCATCGGCCCAGGGAGGCGTGTCGGACGACATCTT

EGVIII Endoglucanase and Nucleic Acids

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70 140 210 280 GSAEALGKIT NPDGSTDLLY FDVHKYLDIN NSGSHAECTT DNVDAFNDFA DWLRQNKRQA IISETGASME VDLWVQIAKY YEDNDKIIFG LMNEPHDLDI EIWAQTCQKV VTAIRKAGAT SQMILLPGTN FASVETYVST GLNVFRISAT WQFVLNNTVD GKLDELNWGS YNKVVNACLE TGAYCMIDMH NFARYNGGII GQGGVSDDIF MRATSLLAAA LAVAGDALAG KIKYLGVAIP GIDFGCDIDG SCPTDTSSVP LLSYKGGDGA GQMKHFAEDD 200 120 260 50 110 180 250 240 100 160 90 150

GOVIII Endoglucanase and Nucleic Acids

350

PSCMTAFCAQ NKAISENSDV YIGFVGWGAG SFDTSYILTL TPLGKPGNYT DNKLMNECIL DQFTLDEKYR

PTPTSISTAA EETATATATS DGDAPSTTKP IFREETASPT PNAVTKPSPD TSDSSDDDKD SAASMSAQGL

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> TGTVLFTVAA LGYMLVAF 430 438

Figure 2 Predicted T. reesei EG VIII amino acid sequence